

Art Unit: 3764

CLMPTO

SGREEN

12/29/03

1. A catheterless, piercing introducer assembly suitable for the introduction and sutureless juncture of a prepared communication channel to the interior space of an anatomic body part within a living subject, said introducer comprising:

a perforator instrument comprised of

(i) at least one elongated supporting shaft of predetermined overall dimensions and axial configuration,

(ii) a handle attached at one end to said supporting shaft; and

(iii) a perforating headpiece integrally joined to the other end of said supporting shaft, said perforating headpiece comprising a perforating tip, a penetrating body, and a base aspect; and

communication channel controlling means disposed adjacent to said perforating headpiece on said supporting shaft of said perforator instrument.

2. A catheterless, piercing introducer assembly suitable for the introduction and sutureless juncture of a prepared communication channel to the interior space of an anatomic body part within a living subject, said introducer assembly comprising:

a perforator instrument comprised of

(i) at least one elongated supporting shaft of predetermined overall dimensions and axial configuration

(ii) a handle attached at one end to said supporting shaft; and

(iii) a perforating headpiece integrally joined to the other end of said supporting shaft, said perforating headpiece comprising a perforating tip, a penetrating body, and a base aspect;

communication channel controlling means disposed adjacent to said perforating headpiece on said supporting shaft of said perforator instrument;

a volumetric shaft having two open ends and at least one sidewall of determinable dimensions, said sheath being

(1) sized at one open end for on-demand placement adjacent to and aligned closure with said perforating headpiece of said perforator instrument,

(2) substantially annular in configuration over its axial length, and

(3) adapted for protective positioning around and volumetric spatial envelopment of at least a portion of said supporting shaft extending from said perforating headpiece of said perforator instrument, said sheath providing a protective covering for said enveloped spatial volume then surrounding said supporting shaft; and

position holding means attachable to and detachable from said volumetric sheath and said supporting shaft of said perforator instrument for holding said volumetric sheath and the enveloped spatial volume at a set position around said supporting shaft of said perforator instrument.

3. A catheterless, piercing introducer assembly suitable for the introduction and sutureless juncture of a prepared communication channel to the interior space of an anatomic body part within a living subject, said introducer assembly comprising:

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a perforator instrument comprised of

(i) at least one elongated supporting shaft of predetermined overall dimensions and axial configuration,

(ii) a handle attached at one end to said supporting shaft,

(iii) a perforating headpiece integrally joined to the other end of said supporting shaft, said perforating headpiece comprising a perforating tip, a penetrating body, and a base aspect, and

communication channel controlling means disposed adjacent to said perforating headpiece on said supporting shaft of said perforator instrument;

a volumetric sheath having two open ends and at least one sidewall of determinable dimensions, said sheath being

(1) sized at one open end for on-demand placement adjacent to and aligned closure with said perforating headpiece of said perforator instrument,

(2) substantially annular in configuration over its axial length, and

(3) adapted for protective positioning around and volumetric spatial envelopment of at least a portion of said supporting shaft extending from said perforating headpiece of said perforator instrument, said sheath providing a protective covering for said enveloped spatial volume then surrounding said supporting shaft;

position holding means attachable to and detachable from said volumetric sheath and said supporting shaft of said perforator instrument for holding said volumetric sheath and the enveloped spatial volume at a set position around said supporting shaft of said perforator instrument; and

a prepared communication channel comprising

- a linking connector including at least
 - a first portion of determined dimensions and configuration which is deformable on-demand, said first portion of said linking connector being suitable for passage through an aperture and deformation within the interior space of an anatomic body part whereby said deformation serves to secure said communication channel to the interior of the anatomic body part and places said secured communication channel in fluid flow communication with the interior space of the anatomic body part, and
 - a second portion of determined dimensions and configuration which is permanently joined to the sidewall of a tubular conduit such that said joining retains and secures the tubular conduit for fluid flow communication; and
- a tubular conduit of fixed dimensions and configuration having two open ends and at least one internal lumen, said tubular conduit being permanently joined at one open end to said linking connector.

Cancel claims 4-29.